

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1, 8, 15 and 22-25 and ADD claim 26 in accordance with the following:

1. (CURRENTLY AMENDED) A program for causing an information processing device to execute a document managing method electronically managing a note taken in a paper document printed from an electronic document not including the note when the document is printed and used by a person, the method comprising:

reading as an image a document printed on a paper, said document having a note written thereon;

extracting information about the note from the read image of the document printed on the paper, the note being hand-written on the paper;

recognizing a character written in the image data of the hand-written note;

correlating and electronically storing the electronic document not including the hand-written note and the information about the hand-written note including a character recognition result; and

searching attributes and contents of the electronic document and the recognition result of character ~~contents~~ strings of the hand-written note ~~in accordance with~~ responsive to a search keyword input from a user, and displaying a search result indicating whether the search keyword is contained in the attributes and contents of the electronic document or said character strings, and

wherein the information about the hand-written note includes image data of the hand-written note, and the image data of the hand-written note is obtained by taking a difference between a generated image generated from the electronic document and the read image.

2. (CANCELLED)

3. (CANCELLED)

4. (PREVIOUSLY PRESENTED) The program according to claim 1, wherein the electronic document, a note image, and a recognition result of the hand-written note image are correlated and electronically stored in the correlating and the storing.

5. (CANCELLED)

6. (CANCELLED)

7. (PREVIOUSLY PRESENTED) The program according to claim 1, wherein the information about the hand-written note includes location information indicating a location of the hand-written note within a printed document.

8. (CURRENTLY AMENDED) A document managing apparatus electronically managing a note taken in a paper document printed from an electronic document not including the note when the document is printed and used by a person, comprising:

a unit reading as an image a document printed on a paper, said document having a note written thereon;

a unit extracting information about the note from the read image of the document printed on the paper, the note being hand-written on the paper;

a unit recognizing a character written in the image data of the hand-written note; and

a unit correlating and electronically storing the electronic document including the hand-written note and the information about the hand-written note including a character recognition result; and

a unit searching attributes and contents of the electronic document and the recognition result of character ~~contents~~ strings of the hand-written note ~~in accordance with~~ responsive to a search character input from a user, and displaying a search result indicating whether the search keyword is contained in the attributes and contents of the electronic document or said character strings, and

wherein the information about the not includes image data of the hand-written note, and the image data of the hand-written note is obtained by taking a difference between a generated image generated from the electronic document and the read image.

9. (CANCELLED)

10. (CANCELLED)

11. (PREVIOUSLY PRESENTED) The document managing apparatus according to claim 8, wherein

said correlating and storing unit correlates and electronically stores the electronic document, a note image, and a recognition result of the hand-written note image.

12. (CANCELLED)

13. (CANCELLED)

14. (PREVIOUSLY PRESENTED) The document managing apparatus according to claim 8, wherein

the information about the hand-written note includes location information indicating a location of the hand-written note within a printed document.

15. (CURRENTLY AMENDED) A document managing method electronically managing a note taken in a paper document printed from an electronic document not including the note when the document is printed and used by a person, comprising:

reading as an image a document printed on a paper, said document having a note written thereon;

extracting information about the note from the read image of the document printed on the paper, the note being hand-written on the paper;

recognizing a character written in the image data of the hand-written note;

correlating and electronically storing the electronic document not including the hand-written note and the information about the hand-written note including a character recognition result; and

searching attributes and contents of the electronic document and the recognition result of character ~~contents-strings~~ of the hand-written note in accordance with responsive to a search keyword input from a user, and displaying a search result indicating whether the search keyword is contained in the attributes and contents of the electronic document or said character strings, and

wherein the information about the hand-written note includes image data of the hand-written note, and the image data of the hand-written note is obtained by taking a difference between a generated image generated from the electronic document and the read image.

16. (CANCELED)

17. (CANCELLED)

18. (PREVIOUSLY PRESENTED) The document managing method according to claim 15, wherein

the electronic document, a note image, and a recognition result of the hand-written note image are correlated and electronically stored in the correlating and storing.

19. (CANCELLED)

20. (CANCELLED)

21. (PREVIOUSLY PRESENTED) The document managing method according to claim 15, wherein

the information about the hand-written note includes location information indicating a location of the hand-written note within a printed document.

22. (CURRENTLY AMENDED) A storage medium readable by an information processing device, on which is recorded a program for causing the information processing device to execute a document managing method electronically managing a note written in a paper document printed from an electronic document not including the note when the document is printed and used by a person, the method comprising:

reading as an image a document printed on a paper, said document having a note written thereon;

extracting information about the note from the read image of the document printed on the paper, the note being hand-written on the paper;

recognizing a character written in the image data of the hand-written note; and

correlating and electronically storing the electronic document not including the hand-written note and the information about the hand-written note including a character recognition result of character ~~contents~~ strings of the hand-written note; and

searching attributes and contents of the electronic document and the character ~~recognition result strings~~ in accordance with responsive to a search keyword input from a user, and displaying a search result indicating whether the search keyword is contained in the attributes and contents of the electronic document or said character strings, and

wherein the information about the hand-written note includes image data of the hand-written note, and the image data of the hand-written note is obtained by taking a difference between a generated image generated from the electronic document and the read image.

23. (CURRENTLY AMENDED) A method, comprising:
printing a stored electronic document as a printed document;
~~making~~ creating a handwritten note on the printed document where the handwritten note is not included in the electronic document;
scanning the printed document including the handwritten note;
performing character recognition on the handwritten note producing a recognized character ~~content~~ strings of the hand-written note; and
extracting the handwritten note from the scanned printed document by determining a difference between the electronic document and the scanned printed document; and
storing the extracted handwritten note and the recognized character linked to the electronic document, wherein attributes and contents of the electronic document and the recognized character strings are searched ~~in accordance with responsive to~~ a search keyword input from a user and a search result indicating whether the search keyword is contained in the attributes and contents of the electronic document or said character strings is provided.

24. (CURRENTLY AMENDED) A method, comprising:
scanning a printed version of an electronic document including a handwritten note;
performing character recognition on the handwritten note producing a recognized character ~~content~~ strings of the hand-written note; and
extracting by determining a difference between the electronic document and the scanned printed document including the handwritten note and storing the handwritten note and recognized character strings linked to the electronic document, wherein a search of attributes

and contents of the electronic document and the recognized character is conducted using a search keyword input from a user and a search result indicating whether the search keyword is contained in the attributes and contents of the electronic document or said character strings is provided.

25. (CURRENTLY AMENDED) A method of managing a document, comprising:
extracting information of a handwritten note on a document subsequent to printing the document by comparing the document with a corresponding document prior to said printing, said corresponding document being without the handwritten note; and
searching for a keyword within contents of the corresponding document and a character recognition indicating character ~~contents~~ strings of the note handwritten on the printed document, where a result of the searching indicates whether the keyword is contained in said character strings of the note handwritten and said contents of the corresponding document.

26. (NEW) A method of electronically managing a note written on a printed electronic document, comprising:
removing contents printed on an electronic document to generate an image of a note handwritten on the electronic document subsequent to printing and storing character strings contained in the note based on a character recognition; and
searching the stored character strings for a keyword and providing the character strings and the image of said note as a result when said searching results in the keyword matching at least one of the character strings.